

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-170HL-LN-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

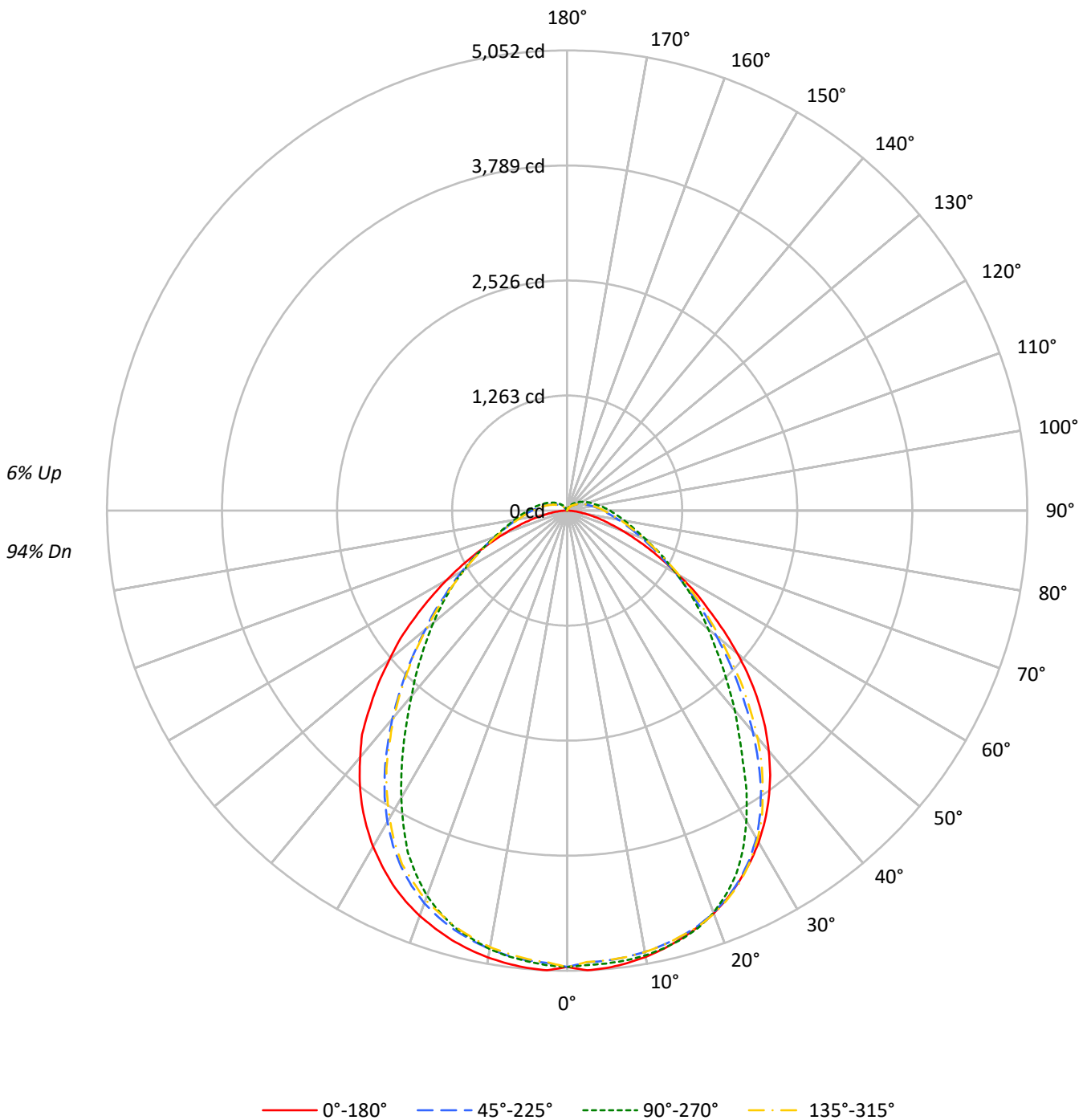
Lumens per Lamp: N/A
Luminaire Lumens: 12680.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20245	20245	20245	20245
5°	20417	19600	20417	19514
10°	20354	19079	20387	18814
15°	20251	18509	20343	18027
20°	20126	17776	20244	17025
25°	19834	16689	20054	15706
30°	19446	15091	19701	13971
35°	18826	13133	19189	12229
40°	17921	11486	18395	10657
45°	16716	9984	17258	9412
50°	15052	8773	15714	8331
55°	13065	7747	14015	7356
60°	11037	6802	12035	6411
65°	9102	6014	10019	5576
70°	7305	5337	8180	4936
75°	5813	4928	6545	4534
80°	4301	4755	5066	4345
85°	2820	4782	3796	4395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	3.7
10°-20°	1362.1	10.7
20°-30°	2018.7	15.9
30°-40°	2242.7	17.7
40°-50°	2032.9	16.0
50°-60°	1575.3	12.4
60°-70°	1069.8	8.4
70°-80°	680.6	5.4
80°-90°	435.1	3.4
90°-100°	293.4	2.3
100°-110°	200.9	1.6
110°-120°	134.0	1.1
120°-130°	83.4	0.7
130°-140°	46.1	0.4
140°-150°	21.6	0.2
150°-160°	7.9	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	3855.7	30.4
0°-40°	6098.4	48.1
0°-60°	9706.7	76.6
0°-90°	11892.1	93.8
90°-120°	628.3	5.0
90°-150°	779.5	6.1
90°-180°	788.0	6.2
0°-180°	12680.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5010	5010	5010	5010	5010	
5°	5041	4991	5041	4969	5041	479
15°	4862	4870	4884	4743	4862	1372
25°	4481	4399	4531	4140	4481	2064
35°	3858	3362	3933	3131	3858	2407
45°	2971	2403	3067	2265	2971	2282
55°	1896	1689	2034	1604	1896	1707
65°	984	1136	1083	1053	984	987
75°	394	758	444	697	394	424
85°	72	546	96	502	72	86
90°	0	471	6	430	0	4
95°	3	402	0	375	3	2
105°	3	295	0	278	3	3
115°	3	223	0	207	3	3
125°	3	165	3	146	3	3
135°	3	116	3	94	3	2
145°	3	74	3	52	3	2
155°	3	41	3	19	3	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	5051.7	5046.2	5040.7	5032.4	5040.7	5062.8	5049.0	5018.7	5013.2	4963.5	4985.6
5°	5040.7	5032.4	5026.9	5018.7	5029.7	5057.3	5043.5	5015.9	5007.6	4960.8	4985.6
7.5°	5013.2	5007.6	4999.4	4999.4	5010.4	5038.0	5026.9	4996.6	4991.1	4944.3	4971.8
10°	4974.6	4971.8	4966.3	4966.3	4977.3	5010.4	4996.6	4969.1	4963.5	4919.5	4949.8
12.5°	4925.0	4927.7	4919.5	4919.5	4936.0	4969.1	4958.0	4927.7	4922.2	4883.6	4913.9
15°	4861.6	4864.3	4858.8	4861.6	4878.1	4916.7	4902.9	4875.4	4869.8	4839.5	4864.3
17.5°	4789.9	4792.7	4792.7	4789.9	4809.2	4847.8	4836.8	4812.0	4803.7	4778.9	4809.2
20°	4707.2	4707.2	4707.2	4707.2	4729.3	4767.9	4754.1	4734.8	4718.3	4699.0	4723.8
22.5°	4605.3	4602.5	4605.3	4613.5	4635.6	4665.9	4657.6	4635.6	4610.8	4599.8	4619.0
25°	4481.2	4489.5	4492.3	4500.5	4528.1	4552.9	4544.6	4522.6	4484.0	4475.7	4481.2
27.5°	4351.7	4357.2	4365.5	4362.7	4401.3	4426.1	4409.6	4390.3	4335.2	4326.9	4321.4
30°	4205.6	4213.9	4219.4	4216.7	4247.0	4274.5	4258.0	4233.2	4158.8	4153.3	4109.2
32.5°	4040.3	4048.6	4054.1	4054.1	4098.2	4109.2	4078.9	4043.0	3963.1	3943.8	3905.2
35°	3858.4	3866.7	3869.4	3869.4	3913.5	3910.8	3872.2	3822.6	3734.4	3709.6	3643.4
37.5°	3662.7	3668.2	3671.0	3687.5	3706.8	3690.3	3640.7	3577.3	3511.1	3442.2	3370.6
40°	3442.2	3450.5	3456.0	3467.0	3486.3	3467.0	3395.4	3318.2	3246.6	3169.4	3097.7
42.5°	3216.2	3241.0	3235.5	3232.8	3243.8	3191.4	3136.3	3048.1	2976.5	2896.6	2824.9
45°	2971.0	2968.2	2982.0	2987.5	2984.7	2940.6	2863.5	2783.6	2711.9	2629.2	2568.6
47.5°	2711.9	2709.1	2720.2	2725.7	2709.1	2662.3	2601.7	2510.7	2450.1	2378.4	2331.6
50°	2439.1	2439.1	2455.6	2439.1	2430.8	2383.9	2334.3	2243.4	2196.5	2133.1	2105.6
52.5°	2166.2	2191.0	2174.5	2169.0	2160.7	2113.8	2075.3	2000.9	1962.3	1934.7	1901.6
55°	1896.1	1923.7	1912.7	1904.4	1901.6	1863.1	1827.2	1772.1	1747.3	1728.0	1708.7
57.5°	1667.4	1664.6	1659.1	1650.8	1653.6	1623.3	1587.5	1557.1	1546.1	1537.8	1543.4
60°	1402.8	1424.8	1416.6	1419.3	1422.1	1416.6	1386.3	1367.0	1369.7	1372.5	1380.8
62.5°	1185.1	1204.4	1218.1	1207.1	1212.6	1220.9	1204.4	1198.9	1209.9	1220.9	1231.9
65°	983.9	1003.2	1017.0	1014.2	1030.7	1047.3	1044.5	1050.0	1074.8	1088.6	1102.4
67.5°	802.0	821.3	840.6	843.3	868.1	892.9	904.0	923.3	950.8	970.1	986.6
70°	644.9	661.4	683.5	697.3	730.3	763.4	782.7	821.3	837.8	865.4	876.4
72.5°	504.3	518.1	548.4	581.5	609.1	650.4	689.0	722.1	746.9	777.2	791.0
75°	394.1	399.6	432.7	471.3	509.9	556.7	598.1	633.9	667.0	697.3	719.3
77.5°	289.4	297.6	328.0	380.3	424.4	474.0	520.9	559.5	595.3	625.6	655.9
80°	201.2	217.7	250.8	303.2	352.8	407.9	452.0	496.1	534.7	565.0	595.3
82.5°	129.5	143.3	190.2	242.5	294.9	350.0	396.9	441.0	482.3	515.4	542.9
85°	71.7	90.9	137.8	192.9	245.3	300.4	350.0	394.1	435.4	465.8	493.3
87.5°	27.6	55.1	99.2	151.6	203.9	256.3	308.7	350.0	391.4	424.4	449.2
90°	0.0	33.1	74.4	126.8	179.1	231.5	281.1	325.2	363.8	394.1	421.7
92.5°	2.8	22.0	57.9	102.0	151.6	201.2	248.0	292.1	330.7	361.0	385.8
95°	2.8	16.5	46.9	88.2	132.3	179.1	223.2	264.6	300.4	330.7	355.5
97.5°	2.8	11.0	38.6	77.2	115.8	162.6	203.9	242.5	275.6	305.9	325.2
100°	2.8	11.0	33.1	66.1	104.7	146.1	184.7	223.2	253.6	278.4	300.4
102.5°	2.8	8.3	27.6	57.9	93.7	129.5	168.1	203.9	231.5	256.3	278.4
105°	2.8	8.3	24.8	49.6	82.7	118.5	151.6	184.7	215.0	237.0	256.3
107.5°	2.8	5.5	22.0	41.3	71.7	107.5	140.6	168.1	195.7	217.7	237.0
110°	2.8	5.5	19.3	38.6	63.4	96.5	126.8	154.3	179.1	201.2	217.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.8	5.5	16.5	35.8	57.9	85.4	115.8	140.6	165.4	184.7	201.2
115°	2.8	5.5	16.5	33.1	52.4	74.4	102.0	129.5	148.8	170.9	184.7
117.5°	2.8	5.5	13.8	27.6	49.6	68.9	93.7	115.8	137.8	157.1	170.9
120°	2.8	5.5	13.8	24.8	44.1	63.4	82.7	104.7	126.8	140.6	154.3
122.5°	2.8	5.5	11.0	24.8	38.6	57.9	74.4	93.7	113.0	129.5	143.3
125°	2.8	5.5	11.0	22.0	35.8	52.4	68.9	82.7	102.0	115.8	129.5
127.5°	2.8	5.5	11.0	19.3	33.1	46.9	63.4	77.2	90.9	104.7	115.8
130°	2.8	5.5	8.3	16.5	30.3	41.3	55.1	71.7	82.7	93.7	104.7
132.5°	2.8	5.5	8.3	16.5	24.8	35.8	49.6	63.4	74.4	85.4	93.7
135°	2.8	5.5	8.3	13.8	22.0	33.1	41.3	55.1	66.1	77.2	85.4
137.5°	2.8	5.5	8.3	13.8	19.3	27.6	35.8	46.9	57.9	66.1	77.2
140°	2.8	5.5	8.3	11.0	16.5	24.8	33.1	38.6	49.6	57.9	66.1
142.5°	2.8	5.5	8.3	11.0	16.5	22.0	27.6	33.1	41.3	49.6	57.9
145°	2.8	5.5	8.3	11.0	13.8	19.3	24.8	30.3	33.1	41.3	46.9
147.5°	2.8	5.5	8.3	11.0	11.0	16.5	22.0	24.8	30.3	33.1	38.6
150°	2.8	5.5	8.3	8.3	11.0	13.8	19.3	22.0	24.8	30.3	33.1
152.5°	2.8	5.5	8.3	8.3	11.0	13.8	16.5	19.3	22.0	24.8	27.6
155°	2.8	5.5	8.3	8.3	8.3	11.0	13.8	16.5	19.3	22.0	24.8
157.5°	5.5	5.5	5.5	8.3	8.3	11.0	11.0	13.8	16.5	16.5	19.3
160°	5.5	5.5	5.5	8.3	8.3	8.3	11.0	11.0	13.8	13.8	16.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	4980.1	4988.4	5013.2	5013.2	5007.6	5002.1	5002.1	4993.9	4999.4	5010.4	5004.9
5°	4980.1	4988.4	5013.2	5013.2	5007.6	5002.1	4999.4	4991.1	4999.4	5010.4	5004.9
7.5°	4963.5	4974.6	4999.4	4999.4	4993.9	4991.1	4985.6	4980.1	4988.4	4999.4	4993.9
10°	4941.5	4952.5	4977.3	4977.3	4971.8	4971.8	4963.5	4958.0	4969.1	4977.3	4974.6
12.5°	4908.4	4922.2	4944.3	4941.5	4936.0	4938.7	4930.5	4919.5	4930.5	4938.7	4941.5
15°	4861.6	4878.1	4900.2	4894.6	4886.4	4891.9	4878.1	4869.8	4878.1	4894.6	4891.9
17.5°	4800.9	4812.0	4828.5	4828.5	4820.2	4814.7	4809.2	4800.9	4806.5	4817.5	4820.2
20°	4715.5	4729.3	4737.6	4729.3	4726.5	4718.3	4707.2	4699.0	4710.0	4726.5	4729.3
22.5°	4602.5	4605.3	4624.6	4605.3	4591.5	4588.7	4577.7	4561.2	4577.7	4591.5	4594.2
25°	4462.0	4475.7	4467.5	4434.4	4434.4	4412.3	4406.8	4398.6	4401.3	4426.1	4437.2
27.5°	4282.8	4288.3	4266.3	4238.7	4213.9	4200.1	4180.8	4183.6	4183.6	4216.7	4227.7
30°	4087.1	4056.8	4037.5	3993.4	3974.1	3941.1	3935.6	3935.6	3930.0	3946.6	3996.2
32.5°	3852.9	3811.5	3781.2	3739.9	3706.8	3673.7	3657.2	3665.5	3662.7	3704.1	3720.6
35°	3596.6	3571.8	3508.4	3456.0	3436.7	3387.1	3387.1	3362.3	3378.8	3425.7	3445.0
37.5°	3326.5	3287.9	3235.5	3177.7	3163.9	3125.3	3111.5	3097.7	3133.6	3141.8	3161.1
40°	3050.9	3015.1	2965.5	2910.3	2910.3	2863.5	2863.5	2863.5	2866.2	2882.8	2918.6
42.5°	2789.1	2750.5	2706.4	2667.8	2662.3	2626.5	2626.5	2623.7	2629.2	2643.0	2676.1
45°	2535.5	2505.2	2458.3	2439.1	2441.8	2403.2	2411.5	2403.2	2414.3	2428.0	2439.1
47.5°	2301.3	2282.0	2262.7	2235.1	2226.8	2224.1	2210.3	2199.3	2218.6	2218.6	2235.1
50°	2083.5	2072.5	2061.5	2044.9	2047.7	2036.7	2020.1	2020.1	2033.9	2036.7	2047.7
52.5°	1893.4	1879.6	1865.8	1868.6	1871.3	1865.8	1857.5	1849.3	1857.5	1863.1	1876.8
55°	1703.2	1692.2	1706.0	1700.4	1706.0	1700.4	1694.9	1689.4	1703.2	1694.9	1708.7
57.5°	1532.3	1543.4	1548.9	1537.8	1546.1	1540.6	1543.4	1535.1	1546.1	1551.6	1548.9
60°	1375.2	1391.8	1383.5	1386.3	1397.3	1391.8	1380.8	1389.0	1400.0	1402.8	1400.0
62.5°	1231.9	1251.2	1259.5	1254.0	1256.7	1251.2	1259.5	1248.5	1262.2	1267.8	1259.5
65°	1102.4	1124.4	1130.0	1130.0	1130.0	1124.4	1132.7	1135.5	1141.0	1141.0	1135.5
67.5°	992.2	1011.5	1017.0	1022.5	1017.0	1011.5	1011.5	1014.2	1025.2	1030.7	1025.2
70°	892.9	912.2	915.0	915.0	917.7	923.3	912.2	917.7	926.0	928.8	926.0
72.5°	807.5	826.8	832.3	829.6	832.3	835.1	835.1	829.6	837.8	843.3	843.3
75°	738.6	749.6	755.1	755.1	757.9	760.7	760.7	757.9	763.4	766.2	768.9
77.5°	675.2	683.5	691.8	691.8	694.5	691.8	697.3	697.3	700.0	702.8	705.5
80°	611.8	622.9	628.4	631.1	636.6	639.4	639.4	639.4	642.1	644.9	644.9
82.5°	562.2	570.5	578.8	587.0	587.0	589.8	589.8	589.8	592.5	592.5	595.3
85°	512.6	523.6	531.9	537.4	540.2	542.9	542.9	545.7	545.7	545.7	548.4
87.5°	468.5	482.3	487.8	493.3	496.1	501.6	501.6	501.6	504.3	504.3	504.3
90°	438.2	452.0	457.5	463.0	465.8	468.5	468.5	471.3	471.3	474.0	474.0
92.5°	402.4	416.2	427.2	427.2	429.9	435.4	432.7	432.7	435.4	438.2	438.2
95°	374.8	385.8	394.1	396.9	399.6	399.6	399.6	402.4	399.6	402.4	402.4
97.5°	341.7	352.8	361.0	366.5	369.3	369.3	369.3	372.1	369.3	372.1	372.1
100°	314.2	325.2	333.5	336.2	341.7	341.7	341.7	341.7	341.7	341.7	344.5
102.5°	292.1	303.2	308.7	311.4	314.2	316.9	316.9	316.9	316.9	319.7	319.7
105°	270.1	281.1	286.6	289.4	292.1	294.9	294.9	294.9	297.6	297.6	294.9
107.5°	250.8	259.1	264.6	270.1	272.8	272.8	275.6	275.6	275.6	275.6	275.6
110°	231.5	239.8	248.0	253.6	253.6	256.3	256.3	259.1	259.1	256.3	259.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	212.2	223.2	228.7	234.3	237.0	239.8	239.8	239.8	239.8	239.8	239.8
115°	195.7	206.7	212.2	217.7	220.5	223.2	223.2	223.2	223.2	223.2	223.2
117.5°	181.9	192.9	198.4	201.2	203.9	206.7	209.5	209.5	209.5	209.5	206.7
120°	168.1	176.4	181.9	187.4	190.2	192.9	192.9	192.9	192.9	192.9	192.9
122.5°	154.3	162.6	168.1	173.6	176.4	179.1	179.1	179.1	179.1	179.1	179.1
125°	140.6	148.8	154.3	159.8	162.6	165.4	165.4	165.4	165.4	165.4	165.4
127.5°	126.8	135.0	143.3	146.1	148.8	151.6	151.6	151.6	154.3	151.6	151.6
130°	113.0	121.3	129.5	132.3	135.0	137.8	140.6	140.6	140.6	140.6	137.8
132.5°	102.0	110.2	115.8	118.5	124.0	124.0	126.8	126.8	126.8	126.8	124.0
135°	93.7	99.2	104.7	107.5	113.0	113.0	113.0	115.8	115.8	113.0	110.2
137.5°	82.7	88.2	93.7	96.5	99.2	102.0	102.0	104.7	102.0	102.0	102.0
140°	77.2	79.9	85.4	88.2	90.9	90.9	90.9	93.7	93.7	90.9	90.9
142.5°	66.1	71.7	77.2	79.9	82.7	82.7	82.7	82.7	82.7	82.7	82.7
145°	55.1	63.4	66.1	71.7	71.7	74.4	74.4	74.4	74.4	74.4	71.7
147.5°	46.9	52.4	60.6	63.4	63.4	66.1	66.1	66.1	66.1	66.1	63.4
150°	35.8	41.3	49.6	55.1	55.1	57.9	57.9	57.9	57.9	55.1	55.1
152.5°	30.3	35.8	38.6	44.1	46.9	46.9	46.9	49.6	46.9	46.9	46.9
155°	27.6	30.3	33.1	35.8	38.6	41.3	41.3	41.3	41.3	38.6	38.6
157.5°	22.0	24.8	27.6	30.3	33.1	35.8	35.8	35.8	35.8	35.8	33.1
160°	16.5	19.3	22.0	22.0	24.8	27.6	30.3	27.6	27.6	27.6	27.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	4999.4	4996.6	5004.9	4991.1	4949.8	4960.8	4955.3	4980.1	4985.6	4991.1	5015.9
5°	4999.4	4996.6	5002.1	4991.1	4947.0	4955.3	4949.8	4974.6	4980.1	4982.8	5007.6
7.5°	4988.4	4985.6	4993.9	4980.1	4933.2	4944.3	4936.0	4960.8	4963.5	4966.3	4988.4
10°	4966.3	4963.5	4969.1	4958.0	4911.2	4922.2	4911.2	4936.0	4936.0	4941.5	4958.0
12.5°	4933.2	4927.7	4938.7	4925.0	4872.6	4886.4	4880.9	4897.4	4900.2	4902.9	4919.5
15°	4886.4	4880.9	4889.1	4880.9	4834.0	4836.8	4828.5	4853.3	4856.1	4850.6	4867.1
17.5°	4817.5	4812.0	4828.5	4823.0	4776.1	4787.2	4784.4	4789.9	4798.2	4784.4	4806.5
20°	4732.0	4737.6	4743.1	4745.8	4710.0	4710.0	4707.2	4718.3	4726.5	4715.5	4732.0
22.5°	4605.3	4619.0	4635.6	4641.1	4616.3	4613.5	4630.1	4624.6	4632.8	4627.3	4638.3
25°	4445.4	4473.0	4489.5	4506.1	4492.3	4497.8	4522.6	4528.1	4528.1	4525.3	4536.4
27.5°	4247.0	4282.8	4313.1	4349.0	4335.2	4346.2	4387.5	4393.1	4404.1	4393.1	4415.1
30°	4010.0	4043.0	4100.9	4153.3	4158.8	4175.3	4233.2	4238.7	4269.0	4258.0	4266.3
32.5°	3773.0	3789.5	3855.6	3908.0	3941.1	3982.4	4045.8	4056.8	4098.2	4106.4	4106.4
35°	3475.3	3522.2	3582.8	3657.2	3698.5	3742.6	3828.1	3844.6	3905.2	3924.5	3946.6
37.5°	3224.5	3268.6	3307.2	3384.4	3458.8	3508.4	3577.3	3618.6	3682.0	3717.8	3745.4
40°	2957.2	2993.0	3034.4	3111.5	3174.9	3249.3	3318.2	3367.8	3447.7	3489.1	3524.9
42.5°	2703.6	2731.2	2775.3	2830.4	2896.6	2979.2	3045.4	3103.2	3188.7	3246.6	3287.9
45°	2477.6	2494.2	2532.8	2574.1	2632.0	2717.4	2780.8	2855.2	2924.1	2984.7	3034.4
47.5°	2265.4	2287.5	2306.8	2334.3	2386.7	2439.1	2513.5	2585.1	2654.0	2720.2	2769.8
50°	2069.8	2069.8	2100.1	2119.4	2155.2	2202.0	2259.9	2309.5	2395.0	2441.8	2505.2
52.5°	1879.6	1890.6	1907.1	1918.2	1945.7	1976.0	2022.9	2064.2	2135.9	2180.0	2240.6
55°	1711.5	1722.5	1730.8	1736.3	1752.8	1788.6	1805.2	1838.2	1887.9	1923.7	1976.0
57.5°	1551.6	1557.1	1565.4	1568.2	1570.9	1593.0	1606.7	1615.0	1664.6	1700.4	1744.5
60°	1405.6	1405.6	1413.8	1411.1	1408.3	1419.3	1416.6	1424.8	1455.2	1477.2	1496.5
62.5°	1267.8	1267.8	1270.5	1265.0	1262.2	1262.2	1251.2	1259.5	1267.8	1270.5	1284.3
65°	1141.0	1154.8	1143.7	1146.5	1130.0	1124.4	1118.9	1102.4	1099.6	1088.6	1094.1
67.5°	1028.0	1039.0	1028.0	1028.0	1014.2	1003.2	989.4	961.8	953.6	931.5	926.0
70°	937.0	928.8	934.3	926.0	909.5	895.7	876.4	854.4	826.8	799.2	779.9
72.5°	848.8	848.8	843.3	835.1	826.8	799.2	777.2	752.4	719.3	683.5	655.9
75°	763.4	766.2	766.2	757.9	744.1	719.3	694.5	658.7	622.9	581.5	545.7
77.5°	702.8	702.8	702.8	689.0	675.2	653.2	622.9	584.3	545.7	496.1	454.7
80°	644.9	642.1	642.1	625.6	611.8	587.0	556.7	518.1	476.8	424.4	377.6
82.5°	598.1	595.3	589.8	576.0	556.7	531.9	501.6	460.3	416.2	369.3	311.4
85°	548.4	545.7	540.2	526.4	507.1	485.1	452.0	410.6	366.5	314.2	259.1
87.5°	504.3	501.6	493.3	485.1	463.0	438.2	405.1	366.5	319.7	270.1	215.0
90°	474.0	468.5	463.0	452.0	432.7	405.1	372.1	330.7	283.9	234.3	179.1
92.5°	438.2	435.4	427.2	416.2	399.6	372.1	339.0	300.4	253.6	206.7	154.3
95°	402.4	399.6	394.1	383.1	366.5	341.7	311.4	272.8	228.7	181.9	135.0
97.5°	369.3	369.3	361.0	352.8	333.5	314.2	283.9	248.0	206.7	165.4	121.3
100°	341.7	341.7	333.5	322.5	308.7	289.4	259.1	226.0	187.4	148.8	104.7
102.5°	316.9	314.2	308.7	297.6	283.9	264.6	237.0	206.7	170.9	132.3	93.7
105°	294.9	292.1	286.6	275.6	264.6	242.5	220.5	190.2	154.3	118.5	82.7
107.5°	272.8	270.1	267.3	256.3	242.5	223.2	201.2	170.9	140.6	107.5	74.4
110°	253.6	250.8	245.3	234.3	220.5	203.9	181.9	157.1	126.8	96.5	66.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	237.0	234.3	228.7	217.7	206.7	187.4	168.1	140.6	115.8	88.2	57.9
115°	220.5	217.7	212.2	201.2	187.4	170.9	151.6	129.5	102.0	77.2	52.4
117.5°	203.9	201.2	195.7	187.4	173.6	157.1	137.8	115.8	90.9	71.7	46.9
120°	190.2	184.7	179.1	170.9	157.1	143.3	124.0	104.7	82.7	63.4	41.3
122.5°	176.4	170.9	165.4	157.1	143.3	129.5	110.2	93.7	77.2	57.9	38.6
125°	159.8	157.1	151.6	143.3	129.5	115.8	102.0	85.4	68.9	52.4	33.1
127.5°	146.1	143.3	137.8	126.8	115.8	104.7	90.9	77.2	60.6	44.1	30.3
130°	135.0	129.5	124.0	115.8	107.5	96.5	82.7	68.9	55.1	38.6	27.6
132.5°	121.3	115.8	110.2	104.7	96.5	85.4	74.4	60.6	49.6	35.8	24.8
135°	110.2	104.7	99.2	93.7	85.4	77.2	66.1	55.1	44.1	33.1	22.0
137.5°	96.5	93.7	90.9	85.4	77.2	68.9	60.6	46.9	38.6	30.3	19.3
140°	88.2	85.4	82.7	74.4	68.9	60.6	52.4	41.3	33.1	24.8	16.5
142.5°	79.9	77.2	71.7	66.1	60.6	55.1	44.1	38.6	30.3	22.0	16.5
145°	68.9	66.1	63.4	57.9	52.4	44.1	38.6	33.1	27.6	19.3	13.8
147.5°	63.4	60.6	55.1	49.6	44.1	38.6	35.8	30.3	22.0	16.5	11.0
150°	52.4	49.6	46.9	41.3	38.6	35.8	30.3	24.8	19.3	13.8	11.0
152.5°	44.1	41.3	38.6	38.6	33.1	30.3	24.8	22.0	16.5	13.8	8.3
155°	38.6	38.6	35.8	33.1	27.6	24.8	22.0	16.5	13.8	11.0	8.3
157.5°	33.1	30.3	27.6	27.6	24.8	22.0	16.5	13.8	11.0	11.0	8.3
160°	27.6	24.8	24.8	22.0	19.3	16.5	13.8	13.8	11.0	8.3	8.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	5018.7	4988.4	5015.9	5051.7	5051.7	5046.2	5040.7	5051.7	5079.3	5068.3	5035.2
5°	5010.4	4980.1	5004.9	5040.7	5040.7	5032.4	5026.9	5035.2	5065.5	5051.7	5021.4
7.5°	4993.9	4966.3	4982.8	5015.9	5015.9	5007.6	5002.1	5013.2	5038.0	5024.2	4991.1
10°	4963.5	4933.2	4952.5	4982.8	4980.1	4974.6	4966.3	4980.1	5002.1	4982.8	4944.3
12.5°	4925.0	4894.6	4911.2	4938.7	4936.0	4925.0	4919.5	4927.7	4947.0	4936.0	4894.6
15°	4872.6	4842.3	4856.1	4883.6	4875.4	4867.1	4856.1	4858.8	4883.6	4864.3	4820.2
17.5°	4809.2	4776.1	4787.2	4812.0	4803.7	4795.4	4781.7	4784.4	4812.0	4784.4	4737.6
20°	4732.0	4696.2	4704.5	4734.8	4721.0	4707.2	4693.5	4693.5	4721.0	4690.7	4638.3
22.5°	4649.4	4613.5	4619.0	4641.1	4630.1	4605.3	4591.5	4599.8	4613.5	4575.0	4519.8
25°	4547.4	4500.5	4508.8	4530.9	4522.6	4489.5	4475.7	4481.2	4475.7	4445.4	4387.5
27.5°	4428.9	4379.3	4384.8	4398.6	4387.5	4357.2	4340.7	4343.4	4332.4	4293.8	4227.7
30°	4280.1	4255.3	4252.5	4260.8	4244.2	4213.9	4194.6	4189.1	4186.4	4131.2	4051.3
32.5°	4128.5	4106.4	4092.7	4103.7	4084.4	4054.1	4021.0	4021.0	3993.4	3941.1	3872.2
35°	3974.1	3938.3	3924.5	3932.8	3910.8	3872.2	3844.6	3830.8	3789.5	3723.3	3648.9
37.5°	3775.7	3750.9	3734.4	3742.6	3717.8	3690.3	3637.9	3624.1	3580.0	3489.1	3395.4
40°	3560.7	3541.5	3524.9	3533.2	3505.6	3464.3	3417.4	3395.4	3345.8	3243.8	3169.4
42.5°	3329.2	3321.0	3301.7	3332.0	3276.9	3235.5	3188.7	3152.9	3103.2	2993.0	2907.6
45°	3084.0	3103.2	3059.2	3067.4	3031.6	2995.8	2946.2	2893.8	2844.2	2739.5	2643.0
47.5°	2824.9	2838.7	2808.4	2813.9	2775.3	2742.2	2698.1	2632.0	2576.9	2485.9	2400.5
50°	2557.6	2552.1	2552.1	2546.5	2516.2	2474.9	2430.8	2370.2	2315.0	2232.4	2160.7
52.5°	2273.7	2284.7	2290.2	2304.0	2265.4	2240.6	2171.7	2119.4	2078.0	1992.6	1932.0
55°	2000.9	2039.4	2028.4	2033.9	1989.8	1970.5	1915.4	1874.1	1813.4	1763.8	1725.3
57.5°	1752.8	1761.1	1766.6	1774.9	1755.6	1717.0	1672.9	1639.8	1593.0	1551.6	1524.1
60°	1513.0	1513.0	1515.8	1529.6	1510.3	1477.2	1444.1	1419.3	1386.3	1361.5	1344.9
62.5°	1287.0	1306.3	1309.1	1298.1	1273.3	1256.7	1234.7	1220.9	1198.9	1190.6	1185.1
65°	1077.6	1077.6	1077.6	1083.1	1069.3	1058.3	1044.5	1041.8	1050.0	1039.0	1044.5
67.5°	901.2	892.9	887.4	890.2	884.7	879.2	876.4	884.7	901.2	901.2	915.0
70°	749.6	733.1	722.1	722.1	722.1	724.8	733.1	749.6	777.2	788.2	807.5
72.5°	625.6	589.8	573.2	573.2	576.0	587.0	611.8	642.1	667.0	689.0	713.8
75°	507.1	471.3	446.5	443.7	449.2	465.8	501.6	529.2	570.5	600.8	631.1
77.5°	410.6	366.5	336.2	333.5	341.7	366.5	410.6	446.5	493.3	526.4	559.5
80°	328.0	278.4	253.6	237.0	250.8	281.1	330.7	374.8	418.9	463.0	504.3
82.5°	261.8	215.0	176.4	159.8	176.4	217.7	264.6	316.9	361.0	407.9	449.2
85°	206.7	157.1	113.0	96.5	115.8	159.8	212.2	264.6	314.2	361.0	402.4
87.5°	162.6	113.0	68.9	46.9	71.7	118.5	168.1	220.5	272.8	319.7	361.0
90°	126.8	79.9	38.6	5.5	41.3	85.4	135.0	184.7	237.0	283.9	325.2
92.5°	107.5	60.6	22.0	0.0	24.8	63.4	110.2	159.8	206.7	253.6	294.9
95°	90.9	49.6	16.5	0.0	16.5	49.6	90.9	135.0	181.9	228.7	270.1
97.5°	77.2	38.6	11.0	0.0	11.0	38.6	74.4	118.5	159.8	203.9	242.5
100°	66.1	33.1	8.3	0.0	8.3	30.3	63.4	102.0	143.3	184.7	220.5
102.5°	57.9	27.6	5.5	0.0	5.5	24.8	52.4	88.2	124.0	162.6	198.4
105°	49.6	22.0	5.5	0.0	2.8	19.3	44.1	77.2	110.2	146.1	179.1
107.5°	44.1	19.3	5.5	0.0	2.8	16.5	38.6	66.1	99.2	129.5	159.8
110°	38.6	16.5	5.5	0.0	2.8	11.0	33.1	57.9	85.4	115.8	146.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.1	13.8	2.8	0.0	0.0	8.3	27.6	49.6	74.4	104.7	129.5
115°	30.3	13.8	2.8	0.0	0.0	5.5	22.0	44.1	66.1	93.7	115.8
117.5°	27.6	11.0	2.8	0.0	2.8	5.5	19.3	38.6	57.9	79.9	104.7
120°	24.8	11.0	2.8	0.0	2.8	2.8	13.8	33.1	49.6	71.7	90.9
122.5°	22.0	11.0	2.8	0.0	2.8	2.8	11.0	27.6	44.1	63.4	79.9
125°	19.3	8.3	5.5	2.8	2.8	2.8	8.3	22.0	38.6	52.4	71.7
127.5°	19.3	8.3	5.5	2.8	2.8	2.8	5.5	19.3	30.3	46.9	63.4
130°	16.5	8.3	5.5	2.8	2.8	2.8	2.8	13.8	27.6	38.6	52.4
132.5°	13.8	8.3	5.5	2.8	2.8	2.8	2.8	8.3	19.3	33.1	44.1
135°	13.8	8.3	5.5	2.8	2.8	2.8	2.8	5.5	13.8	24.8	35.8
137.5°	11.0	5.5	5.5	2.8	2.8	2.8	2.8	2.8	11.0	19.3	27.6
140°	11.0	5.5	5.5	2.8	2.8	2.8	2.8	2.8	8.3	13.8	22.0
142.5°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	5.5	11.0	16.5
145°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	5.5	11.0
147.5°	8.3	8.3	5.5	2.8	2.8	2.8	2.8	2.8	2.8	5.5	8.3
150°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5
152.5°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5
155°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5
157.5°	8.3	5.5	5.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5
160°	8.3	5.5	5.5	2.8	5.5	2.8	5.5	5.5	5.5	5.5	5.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	5024.2	4971.8	4999.4	4991.1	5002.1	5024.2	5021.4	5015.9	5015.9	5007.6	4996.6
5°	5007.6	4958.0	4982.8	4969.1	4982.8	5002.1	4999.4	4991.1	4996.6	4982.8	4969.1
7.5°	4974.6	4930.5	4952.5	4941.5	4952.5	4971.8	4963.5	4960.8	4966.3	4944.3	4936.0
10°	4936.0	4886.4	4911.2	4897.4	4911.2	4925.0	4919.5	4908.4	4919.5	4897.4	4889.1
12.5°	4875.4	4834.0	4850.6	4845.0	4853.3	4867.1	4856.1	4847.8	4853.3	4834.0	4817.5
15°	4809.2	4767.9	4781.7	4773.4	4778.9	4795.4	4776.1	4773.4	4767.9	4748.6	4743.1
17.5°	4723.8	4685.2	4699.0	4685.2	4693.5	4687.9	4685.2	4671.4	4671.4	4649.4	4632.8
20°	4619.0	4586.0	4577.7	4566.7	4577.7	4566.7	4550.1	4539.1	4536.4	4514.3	4500.5
22.5°	4497.8	4459.2	4464.7	4434.4	4437.2	4420.6	4393.1	4382.0	4371.0	4346.2	4326.9
25°	4351.7	4313.1	4285.6	4266.3	4241.5	4238.7	4202.9	4175.3	4172.6	4142.3	4139.5
27.5°	4186.4	4142.3	4120.2	4073.4	4043.0	4018.2	3987.9	3960.4	3946.6	3913.5	3891.5
30°	3996.2	3946.6	3891.5	3858.4	3811.5	3792.2	3739.9	3706.8	3695.8	3660.0	3643.4
32.5°	3781.2	3728.9	3684.8	3621.4	3569.0	3541.5	3489.1	3456.0	3442.2	3403.7	3381.6
35°	3547.0	3489.1	3436.7	3376.1	3334.8	3287.9	3224.5	3191.4	3161.1	3147.3	3130.8
37.5°	3301.7	3238.3	3177.7	3117.0	3081.2	3026.1	2971.0	2948.9	2913.1	2899.3	2882.8
40°	3048.1	2984.7	2926.9	2869.0	2827.7	2778.0	2728.4	2720.2	2681.6	2667.8	2656.8
42.5°	2797.3	2731.2	2665.0	2623.7	2593.4	2543.8	2510.7	2502.4	2469.4	2461.1	2461.1
45°	2571.3	2488.7	2433.5	2397.7	2372.9	2331.6	2304.0	2298.5	2270.9	2265.4	2265.4
47.5°	2328.8	2251.6	2210.3	2188.3	2166.2	2135.9	2119.4	2119.4	2091.8	2086.3	2083.5
50°	2102.8	2031.2	2000.9	1978.8	1976.0	1954.0	1940.2	1934.7	1934.7	1915.4	1918.2
52.5°	1887.9	1852.0	1827.2	1813.4	1796.9	1783.1	1772.1	1772.1	1763.8	1750.1	1755.6
55°	1689.4	1648.1	1650.8	1639.8	1631.5	1623.3	1626.0	1609.5	1606.7	1595.7	1604.0
57.5°	1491.0	1491.0	1485.5	1477.2	1463.4	1468.9	1468.9	1468.9	1455.2	1446.9	1455.2
60°	1322.9	1331.1	1317.4	1325.6	1320.1	1322.9	1317.4	1317.4	1309.1	1306.3	1309.1
62.5°	1174.1	1187.8	1182.3	1193.3	1187.8	1190.6	1196.1	1185.1	1179.6	1174.1	1179.6
65°	1041.8	1058.3	1055.5	1063.8	1066.6	1069.3	1072.1	1066.6	1061.1	1055.5	1052.8
67.5°	926.0	942.6	953.6	956.3	959.1	967.4	964.6	959.1	953.6	945.3	942.6
70°	821.3	843.3	857.1	862.6	873.7	868.1	868.1	865.4	859.9	851.6	848.8
72.5°	733.1	757.9	771.7	777.2	788.2	788.2	785.5	782.7	777.2	768.9	766.2
75°	655.9	678.0	697.3	708.3	716.6	716.6	713.8	711.0	705.5	700.0	697.3
77.5°	595.3	614.6	631.1	644.9	650.4	653.2	650.4	644.9	644.9	642.1	639.4
80°	534.7	556.7	573.2	587.0	595.3	595.3	592.5	595.3	589.8	587.0	584.3
82.5°	482.3	507.1	526.4	540.2	545.7	548.4	545.7	548.4	542.9	542.9	542.9
85°	435.4	460.3	482.3	493.3	501.6	504.3	504.3	504.3	501.6	501.6	501.6
87.5°	396.9	421.7	443.7	454.7	463.0	465.8	465.8	468.5	463.0	463.0	463.0
90°	361.0	385.8	407.9	418.9	427.2	432.7	432.7	435.4	432.7	429.9	429.9
92.5°	328.0	355.5	377.6	388.6	396.9	405.1	405.1	407.9	402.4	402.4	402.4
95°	300.4	328.0	347.3	361.0	369.3	374.8	377.6	377.6	374.8	374.8	374.8
97.5°	275.6	300.4	319.7	333.5	341.7	344.5	347.3	350.0	347.3	347.3	347.3
100°	250.8	275.6	294.9	305.9	316.9	319.7	322.5	325.2	325.2	322.5	322.5
102.5°	228.7	253.6	270.1	283.9	292.1	297.6	300.4	300.4	300.4	300.4	300.4
105°	206.7	231.5	248.0	261.8	270.1	275.6	278.4	281.1	281.1	278.4	278.4
107.5°	187.4	209.5	228.7	239.8	250.8	256.3	259.1	259.1	261.8	259.1	259.1
110°	168.1	192.9	209.5	220.5	231.5	237.0	239.8	242.5	242.5	242.5	242.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	154.3	173.6	190.2	201.2	212.2	217.7	220.5	223.2	226.0	223.2	223.2
115°	137.8	157.1	173.6	184.7	192.9	198.4	203.9	206.7	206.7	209.5	206.7
117.5°	124.0	140.6	157.1	168.1	176.4	184.7	187.4	190.2	192.9	190.2	190.2
120°	110.2	126.8	140.6	151.6	159.8	168.1	170.9	173.6	176.4	173.6	173.6
122.5°	99.2	113.0	126.8	137.8	146.1	151.6	157.1	157.1	159.8	159.8	159.8
125°	88.2	102.0	113.0	124.0	132.3	137.8	140.6	143.3	143.3	146.1	146.1
127.5°	77.2	88.2	102.0	110.2	118.5	124.0	126.8	129.5	129.5	132.3	132.3
130°	66.1	77.2	88.2	96.5	104.7	110.2	113.0	115.8	118.5	118.5	118.5
132.5°	57.9	68.9	77.2	85.4	90.9	96.5	102.0	104.7	104.7	104.7	104.7
135°	46.9	57.9	66.1	74.4	79.9	85.4	88.2	93.7	93.7	93.7	93.7
137.5°	38.6	49.6	57.9	63.4	68.9	74.4	77.2	79.9	82.7	82.7	82.7
140°	30.3	38.6	46.9	55.1	60.6	63.4	68.9	68.9	71.7	71.7	71.7
142.5°	22.0	30.3	35.8	44.1	49.6	55.1	57.9	60.6	60.6	60.6	60.6
145°	16.5	22.0	27.6	33.1	41.3	44.1	46.9	49.6	52.4	52.4	52.4
147.5°	11.0	16.5	19.3	24.8	30.3	35.8	38.6	41.3	44.1	44.1	44.1
150°	8.3	11.0	16.5	19.3	22.0	27.6	33.1	33.1	35.8	35.8	33.1
152.5°	5.5	8.3	11.0	13.8	16.5	19.3	24.8	24.8	27.6	27.6	27.6
155°	5.5	5.5	5.5	8.3	11.0	13.8	16.5	19.3	19.3	19.3	19.3
157.5°	5.5	5.5	5.5	5.5	5.5	8.3	11.0	13.8	13.8	13.8	13.8
160°	5.5	5.5	2.8	2.8	5.5	5.5	5.5	5.5	8.3	8.3	8.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	5004.9	5010.4	5010.4	5004.9	5002.1	5013.2	4999.4	4947.0	4963.5	4969.1	4985.6
5°	4980.1	4985.6	4985.6	4985.6	4980.1	4991.1	4977.3	4925.0	4944.3	4952.5	4963.5
7.5°	4944.3	4947.0	4952.5	4949.8	4944.3	4960.8	4947.0	4894.6	4908.4	4922.2	4936.0
10°	4897.4	4897.4	4900.2	4905.7	4900.2	4913.9	4900.2	4853.3	4867.1	4875.4	4891.9
12.5°	4834.0	4839.5	4842.3	4839.5	4836.8	4847.8	4842.3	4798.2	4803.7	4820.2	4836.8
15°	4748.6	4748.6	4762.4	4756.8	4756.8	4767.9	4773.4	4723.8	4732.0	4756.8	4773.4
17.5°	4643.9	4646.6	4657.6	4663.1	4660.4	4679.7	4682.4	4643.9	4641.1	4671.4	4687.9
20°	4508.8	4514.3	4528.1	4539.1	4539.1	4561.2	4569.4	4544.6	4547.4	4580.5	4586.0
22.5°	4343.4	4343.4	4368.3	4384.8	4398.6	4412.3	4437.2	4415.1	4415.1	4459.2	4484.0
25°	4139.5	4158.8	4167.1	4200.1	4219.4	4258.0	4280.1	4282.8	4285.6	4326.9	4343.4
27.5°	3913.5	3919.0	3943.8	3982.4	4004.5	4040.3	4081.6	4089.9	4103.7	4158.8	4183.6
30°	3657.2	3673.7	3684.8	3739.9	3770.2	3817.1	3869.4	3888.7	3899.7	3974.1	4004.5
32.5°	3395.4	3400.9	3447.7	3478.1	3513.9	3563.5	3624.1	3660.0	3682.0	3759.2	3803.3
35°	3133.6	3144.6	3183.2	3221.8	3257.6	3307.2	3370.6	3420.2	3458.8	3527.7	3585.5
37.5°	2893.8	2921.4	2929.6	2968.2	2995.8	3045.4	3089.5	3161.1	3199.7	3271.4	3345.8
40°	2678.8	2687.1	2692.6	2731.2	2750.5	2797.3	2860.7	2907.6	2959.9	3012.3	3100.5
42.5°	2466.6	2472.1	2480.4	2502.4	2524.5	2557.6	2604.4	2651.3	2706.4	2783.6	2841.4
45°	2270.9	2276.5	2282.0	2295.7	2315.0	2345.4	2375.7	2408.7	2463.9	2530.0	2590.6
47.5°	2089.0	2100.1	2100.1	2102.8	2116.6	2141.4	2163.5	2204.8	2235.1	2270.9	2339.8
50°	1915.4	1923.7	1926.4	1926.4	1934.7	1951.2	1956.8	1984.3	2011.9	2044.9	2094.6
52.5°	1752.8	1752.8	1750.1	1761.1	1761.1	1772.1	1774.9	1791.4	1810.7	1846.5	1868.6
55°	1598.5	1598.5	1606.7	1601.2	1601.2	1606.7	1604.0	1606.7	1623.3	1645.3	1664.6
57.5°	1449.7	1446.9	1455.2	1449.7	1446.9	1452.4	1457.9	1446.9	1449.7	1471.7	1471.7
60°	1300.8	1303.6	1311.9	1306.3	1306.3	1306.3	1300.8	1295.3	1289.8	1303.6	1309.1
62.5°	1182.3	1174.1	1182.3	1174.1	1179.6	1176.8	1171.3	1160.3	1163.0	1157.5	1152.0
65°	1058.3	1058.3	1061.1	1052.8	1058.3	1058.3	1050.0	1047.3	1030.7	1025.2	1011.5
67.5°	950.8	950.8	953.6	948.1	948.1	950.8	942.6	934.3	917.7	909.5	890.2
70°	857.1	857.1	857.1	854.4	854.4	854.4	848.8	837.8	821.3	807.5	782.7
72.5°	771.7	774.4	771.7	771.7	779.9	771.7	763.4	752.4	738.6	711.0	689.0
75°	702.8	705.5	702.8	702.8	702.8	700.0	697.3	680.7	664.2	642.1	609.1
77.5°	642.1	642.1	644.9	642.1	642.1	639.4	631.1	617.3	598.1	578.8	540.2
80°	584.3	587.0	589.8	592.5	587.0	584.3	576.0	565.0	540.2	518.1	479.5
82.5°	542.9	540.2	542.9	545.7	540.2	537.4	529.2	515.4	496.1	465.8	427.2
85°	501.6	498.8	498.8	501.6	498.8	493.3	485.1	471.3	452.0	421.7	383.1
87.5°	460.3	463.0	465.8	463.0	460.3	454.7	446.5	432.7	410.6	385.8	344.5
90°	429.9	429.9	429.9	429.9	427.2	421.7	413.4	396.9	377.6	347.3	311.4
92.5°	402.4	402.4	402.4	402.4	399.6	391.4	383.1	369.3	347.3	316.9	283.9
95°	374.8	377.6	374.8	374.8	369.3	366.5	352.8	339.0	319.7	289.4	253.6
97.5°	344.5	347.3	344.5	344.5	341.7	336.2	328.0	311.4	292.1	264.6	231.5
100°	322.5	322.5	319.7	319.7	316.9	311.4	300.4	286.6	267.3	239.8	206.7
102.5°	297.6	300.4	297.6	297.6	292.1	286.6	278.4	264.6	245.3	217.7	187.4
105°	278.4	278.4	275.6	275.6	270.1	264.6	256.3	239.8	223.2	198.4	168.1
107.5°	259.1	259.1	256.3	256.3	250.8	245.3	234.3	220.5	203.9	179.1	151.6
110°	239.8	239.8	239.8	237.0	231.5	223.2	215.0	201.2	184.7	162.6	135.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	226.0	223.2	220.5	217.7	212.2	206.7	195.7	181.9	165.4	146.1	121.3
115°	206.7	206.7	203.9	201.2	195.7	187.4	179.1	168.1	151.6	129.5	107.5
117.5°	190.2	190.2	187.4	184.7	179.1	170.9	162.6	151.6	135.0	115.8	96.5
120°	173.6	173.6	170.9	168.1	162.6	154.3	148.8	135.0	121.3	102.0	85.4
122.5°	159.8	157.1	157.1	151.6	148.8	140.6	132.3	121.3	107.5	90.9	74.4
125°	143.3	143.3	140.6	137.8	135.0	126.8	118.5	107.5	93.7	79.9	66.1
127.5°	129.5	129.5	126.8	124.0	121.3	113.0	104.7	96.5	82.7	68.9	55.1
130°	115.8	115.8	113.0	110.2	107.5	99.2	93.7	82.7	71.7	60.6	46.9
132.5°	104.7	104.7	102.0	99.2	93.7	88.2	82.7	71.7	63.4	52.4	41.3
135°	93.7	90.9	90.9	88.2	82.7	77.2	71.7	63.4	52.4	44.1	33.1
137.5°	82.7	79.9	77.2	74.4	71.7	66.1	60.6	55.1	46.9	35.8	27.6
140°	71.7	68.9	68.9	66.1	60.6	57.9	52.4	44.1	38.6	30.3	22.0
142.5°	60.6	60.6	57.9	55.1	52.4	49.6	44.1	38.6	30.3	24.8	16.5
145°	52.4	49.6	49.6	46.9	44.1	38.6	35.8	30.3	24.8	19.3	13.8
147.5°	41.3	41.3	41.3	38.6	35.8	33.1	30.3	24.8	19.3	13.8	8.3
150°	33.1	33.1	33.1	30.3	27.6	24.8	22.0	19.3	13.8	8.3	5.5
152.5°	27.6	27.6	24.8	24.8	22.0	19.3	16.5	13.8	8.3	5.5	5.5
155°	19.3	19.3	19.3	16.5	16.5	13.8	11.0	8.3	5.5	5.5	5.5
157.5°	13.8	13.8	13.8	11.0	11.0	8.3	8.3	5.5	5.5	5.5	5.5
160°	8.3	8.3	8.3	8.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4	5010.4
2.5°	4977.3	4974.6	4996.6	4996.6	4971.8	5010.4	5051.7
5°	4960.8	4958.0	4980.1	4980.1	4958.0	4996.6	5040.7
7.5°	4927.7	4930.5	4952.5	4958.0	4930.5	4966.3	5013.2
10°	4891.9	4889.1	4913.9	4919.5	4897.4	4930.5	4974.6
12.5°	4834.0	4834.0	4858.8	4867.1	4845.0	4883.6	4925.0
15°	4773.4	4773.4	4789.9	4803.7	4784.4	4820.2	4861.6
17.5°	4696.2	4693.5	4710.0	4726.5	4707.2	4745.8	4789.9
20°	4597.0	4597.0	4616.3	4635.6	4621.8	4657.6	4707.2
22.5°	4492.3	4481.2	4514.3	4528.1	4519.8	4555.7	4605.3
25°	4360.0	4357.2	4390.3	4409.6	4398.6	4437.2	4481.2
27.5°	4216.7	4213.9	4247.0	4271.8	4266.3	4302.1	4351.7
30°	4043.0	4056.8	4087.1	4128.5	4114.7	4153.3	4205.6
32.5°	3861.1	3874.9	3910.8	3954.9	3957.6	3987.9	4040.3
35°	3643.4	3679.3	3704.1	3761.9	3773.0	3803.3	3858.4
37.5°	3414.7	3456.0	3508.4	3552.5	3574.5	3599.3	3662.7
40°	3158.4	3219.0	3276.9	3329.2	3356.8	3381.6	3442.2
42.5°	2926.9	2973.7	3028.8	3081.2	3130.8	3152.9	3216.2
45°	2665.0	2720.2	2769.8	2833.2	2882.8	2907.6	2971.0
47.5°	2408.7	2463.9	2530.0	2574.1	2626.5	2651.3	2711.9
50°	2163.5	2213.1	2268.2	2320.5	2364.6	2386.7	2439.1
52.5°	1920.9	1973.3	2025.7	2058.7	2105.6	2122.1	2166.2
55°	1706.0	1741.8	1788.6	1807.9	1854.8	1865.8	1896.1
57.5°	1499.3	1524.1	1540.6	1573.7	1606.7	1631.5	1667.4
60°	1311.9	1322.9	1333.9	1353.2	1380.8	1389.0	1402.8
62.5°	1143.7	1141.0	1163.0	1168.5	1171.3	1198.9	1185.1
65°	994.9	997.7	978.4	970.1	981.1	989.4	983.9
67.5°	870.9	854.4	837.8	818.5	802.0	810.3	802.0
70°	749.6	735.9	708.3	680.7	669.7	653.2	644.9
72.5°	653.2	620.1	592.5	556.7	537.4	518.1	504.3
75°	578.8	531.9	493.3	454.7	427.2	399.6	394.1
77.5°	501.6	457.5	413.4	372.1	330.7	300.4	289.4
80°	441.0	399.6	347.3	297.6	253.6	215.0	201.2
82.5°	385.8	341.7	289.4	237.0	187.4	146.1	129.5
85°	339.0	292.1	239.8	187.4	137.8	93.7	71.7
87.5°	303.2	250.8	198.4	148.8	96.5	52.4	27.6
90°	270.1	220.5	170.9	118.5	68.9	27.6	0.0
92.5°	239.8	192.9	143.3	96.5	52.4	16.5	2.8
95°	212.2	170.9	121.3	77.2	38.6	11.0	2.8
97.5°	190.2	148.8	104.7	63.4	30.3	8.3	2.8
100°	170.9	129.5	90.9	52.4	24.8	5.5	2.8
102.5°	151.6	115.8	77.2	44.1	19.3	2.8	2.8
105°	135.0	102.0	66.1	38.6	16.5	2.8	2.8
107.5°	121.3	90.9	57.9	33.1	11.0	2.8	2.8
110°	107.5	77.2	49.6	27.6	8.3	2.8	2.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	96.5	68.9	44.1	22.0	5.5	2.8	2.8
115°	85.4	60.6	38.6	19.3	5.5	2.8	2.8
117.5°	74.4	52.4	33.1	13.8	2.8	2.8	2.8
120°	66.1	46.9	27.6	11.0	2.8	2.8	2.8
122.5°	57.9	38.6	22.0	8.3	2.8	2.8	2.8
125°	49.6	33.1	19.3	5.5	2.8	2.8	2.8
127.5°	41.3	27.6	13.8	5.5	2.8	2.8	2.8
130°	35.8	22.0	11.0	2.8	2.8	2.8	2.8
132.5°	30.3	16.5	8.3	2.8	2.8	2.8	2.8
135°	24.8	13.8	5.5	2.8	2.8	2.8	2.8
137.5°	19.3	11.0	5.5	2.8	2.8	2.8	2.8
140°	13.8	8.3	2.8	2.8	2.8	2.8	2.8
142.5°	11.0	5.5	2.8	2.8	2.8	2.8	2.8
145°	8.3	5.5	2.8	2.8	2.8	2.8	2.8
147.5°	5.5	5.5	5.5	5.5	2.8	2.8	2.8
150°	5.5	5.5	2.8	2.8	5.5	2.8	2.8
152.5°	5.5	2.8	2.8	2.8	5.5	2.8	2.8
155°	5.5	5.5	5.5	5.5	5.5	5.5	2.8
157.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5
160°	5.5	5.5	5.5	5.5	5.5	5.5	5.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)